



TRANSMITTAL FORM

Application Serial Number	10/533,372
Filing Date	April 29, 2005
First Named Inventor	Watts
Group Art Unit	2874
Examiner Name	Rhonda S. Peace
Attorney Docket No.	MIT-171
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form (Form PTOL-85) <input checked="" type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of IDS Citations <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below) - Comments on Statement of Reasons for Allowance
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Respectfully submitted,


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PATENT
Attorney Docket No. MIT-171

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Watts
SERIAL NO.: 10/533,372 GROUP NO.: 2874
FILING DATE: April 29, 2005 EXAMINER: Rhonda S. Peace
TITLE: WAVELENGTH INSENSITIVE INTEGRATED OPTIC
POLARIZATION SPLITTER

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 9th day of May, 2006.


Linda M. Penta

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. Form PTOL-85 (1 pg.);
3. Check in the amount of \$1,700.00;
4. Comments on Statement of Reasons for Allowance (2 pgs.); and
5. Return receipt postcard



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Watts
SERIAL NO.: 10/533,372 GROUP NO.: 2874
FILING DATE: April 29, 2005 EXAMINER: Rhonda S. Peace
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POLARIZATION SPLITTER

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Washington, D.C. 20231

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE


In response to the Examiner's statement of reasons for allowance included in the Notice of Allowability mailed from the U.S. Patent Office on February 13, 2006, Applicant notes that the applicable prior art does not disclose, nor does it reasonably suggest a polarization splitter comprising an input waveguide element to receive an optical signal having both TE and TM components; a geometrically vertically oriented waveguide element coupled to the input waveguide element that is configured to propagate the TM component of the optical signal, the vertically oriented waveguide element including a plurality of core layers; and a horizontally oriented waveguide element coupled to the input waveguide element and configured to propagate the TE component of the optical signal. Furthermore, the applicable prior art does not teach or suggest a method of forming an integrated optic polarization splitter by providing an input waveguide element that is configured to receive in input an optical signal having TE and TM components; forming a geometrically vertically oriented waveguide element coupled to the input waveguide element that is configured to propagate the TM component of the optical signal, the vertically oriented waveguide element including a plurality of core layers; and forming a horizontally oriented waveguide coupled to the input waveguide element and configured to propagate the TE component of the optical signal. Moreover, the applicable prior art does not disclose nor reasonably suggest forming a pair of waveguide elements, the first waveguide element having a horizontal orientation and the second

waveguide element having a vertical orientation, wherein the two waveguide elements are intersected or nearly intersected at one end of the structure and separated at the other end of the structure with the transition therebetween made to be adiabatic, the waveguide elements being configured to receive an optical signal having both a TE component and a TM component and to propagate the TE component along the horizontally oriented waveguide element and the TM component along the vertically oriented waveguide.

Respectfully submitted,

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